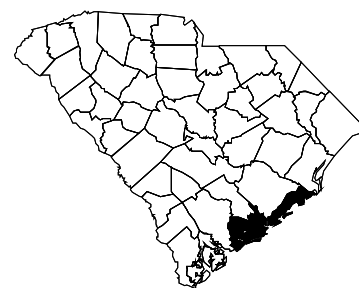


IMPACT OF CHRONIC CONDITIONS CHARLESTON County, 2005



In the year 2005, the leading causes of death among South Carolinians were heart disease, cancer, stroke, accidents, chronic lower respiratory disease, Alzheimer's disease, diabetes, nephritis, nephritic syndrome, nephrosis, pneumonia and influenza and septicemia. This report focuses on the chronic conditions of the population of Charleston county, and is compared to the overall chronic conditions of the population of South Carolina as a whole.

The distribution of Charleston county's population is similar to the state population. The majority (39%) of the population in Charleston county are between the ages of 18-44. There are more females (51.5%) than males (48.5%). Charleston county has a slightly higher minority population (35%) than the state (31%). When adults in DHEC's Region 7 which includes Charleston County, were asked about their general health status, 84.2% reported having excellent, very good, or good health in 2005 (SC was 82%).

	CHARLESTON COUNTY	STATE
Population size	330,368	4,255,083
Age distribution (%)		
<18	24	24
18-44	39	38
45-64	25	25
65-84	11	11
85+	2	2
Race (%)		
White	65	69
Black & Other	35	31
Sex (%)		
Male	48	49
Female	52	51

In spite of the overall reports of good health given by the citizens of the Palmetto State, chronic conditions are still making an impact on the health of many South Carolinians. Through primary and secondary prevention we hope to reduce the risk factors that contribute to the major chronic diseases and leading causes of death among South Carolinians.

The chart below contains the risk factors that contribute to an increased risk of developing a chronic condition. These risk factors are related to the major causes of morbidity and mortality among South Carolinians. Some common behavioral risk factors that contribute to the leading causes of death are smoking, sedentary lifestyle, obesity, and high cholesterol. The prevalence of these risk factors from the 2005 South Carolina Behavioral Risk Factor Surveillance System (BRFSS) survey are listed in the table below for Charleston County.

RISK FACTOR	COUNTY (%)	STATE (%)
Current smoking	20	22
Sedentary lifestyle	25	26
Overweight	59	65
High Cholesterol	38	37

Some preventive measures such as immunization were included in the 2005 SC BRFSS. For persons age 65 years and older in South Carolina:

39.1% have not received the flu shot in the past 12 months

34.4% have never had the pneumonia vaccination

Hospital/ED data in the following tables include ONLY those cases treated in SC hospitals. Cases treated in hospitals outside of SC are NOT included.

HYPERTENSION AND HYPERTENSIVE DISEASE	County					State
	Total	Blacks	Whites	Males	Females	Total
Prevalence (%)	23.4	.	.	.	.	31.7
Number of hospitalizations	333	240	93	141	192	5,032
Crude rate of hospitalizations (per 100,000)	101	207	43	88	113	118
Median age of hospitalized patients	57	52	67	52	62	57
Total cost of hospitalization (\$)	8,698,100	5,943,400	2,754,700	3,500,400	5,197,700	109,400,500
Average length of hospital stay (days)	6	5	6	5	6	5
Number of ED visits	504	378	126	194	310	7,466
Crude rate of ED visits (per 100,000)	153	327	59	121	182	175
Median age of ED patients	57	-	-	-	-	52
Total cost of ED visits (\$)	721,100	516,800	204,300	260,600	460,500	9,929,000
Number of deaths**	29	15	14	9	20	423
Age-Adjusted Death rate (per 100,000)**	9	16	6	6	11	10

DISEASES OF THE HEART	County					State
	Total	Blacks	Whites	Males	Females	Total
Prevalence (%)*	3.1	.	.	.	.	4.1
Number of hospitalizations	3,936	1,456	2,480	2,064	1,872	60,901
Crude rate of hospitalizations (per 100,000)	1,191	1,258	1,155	1,289	1,100	1,431
Median age of hospitalized patients	67	67	72	67	72	67
Total cost of hospitalization (\$)	154,957,600	51,906,100	103,051,500	87,251,900	67,705,700	2,286,836,400
Average length of hospital stay (days)	6	6	5	5	6	5
Number of ED visits	972	478	494	499	473	12,989
Crude rate of ED visits (per 100,000)	294	413	230	312	278	305
Median age of ED patients	62	57	67	62	67	62
Total cost of ED visits (\$)	3,003,600	1,320,900	1,682,700	1,600,800	1,402,800	42,115,900
Number of deaths**	615	216	398	329	286	9,328
Age-Adjusted Death rate (per 100,000)**	190	229	175	254	145	218

STROKE	County					State
	Total	Blacks	Whites	Males	Females	Total
Prevalence (%)*	2.9	.	.	.	.	3
Number of hospitalizations	960	396	564	421	539	13,925
Crude rate of hospitalizations (per 100,000)	291	342	263	263	317	327
Median age of hospitalized patients	70	62	72	67	72	72
Total cost of hospitalization (\$)	27,978,500	12,552,500	15,426,000	11,570,300	16,408,200	384,441,600
Average length of hospital stay (days)	6	7	5	6	6	6
Number of ED visits	185	80	105	88	97	2,515
Crude rate of ED visits (per 100,000)	56	69	49	55	57	59
Median age of ED patients	67	67	72	67	72	67
Total cost of ED visits (\$)	650,100	284,200	365,900	320,500	329,600	9,113,000
Number of deaths**	196	70	126	80	116	2,440
Age-Adjusted Death rate (per 100,000)**	63	80	56	67	60	59

CHRONIC OBSTRUCTIVE PULMONARY DISEASE	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	1,020	390	630	399	621	15,753
Crude rate of hospitalizations (per 100,000)	309	337	293	249	365	370
Median age of hospitalized patients	62	52	72	62	62	62
Total cost of hospitalization (\$)	17,496,900	5,038,000	12,458,900	6,735,200	10,761,700	268,425,300
Average length of hospital stay (days)	5	4	5	4	5	5
Number of ED visits	2,356	1,643	713	986	1,370	36,543
Crude rate of ED visits (per 100,000)	713	1,420	332	616	805	859
Median age of ED patients	32	27	37	17	37	37
Total cost of ED visits (\$)	2,589,000	1,608,600	980,400	1,036,600	1,552,400	40,613,700
Number of deaths**	132	22	110	57	75	1,968
Age-Adjusted Death rate (per 100,000)**	41	24	49	47	39	46

DIABETES	County					State
	Total	Blacks	Whites	Males	Females	Total
Prevalence (%)*	9.5	.	.	.	.	10.3
Number of hospitalizations	619	405	214	294	325	9,027
Crude rate of hospitalizations (per 100,000)	187	350	100	184	191	212
Median age of hospitalized patients	52	52	55	52	52	52
Total cost of hospitalization (\$)	12,711,800	8,001,500	4,710,300	5,959,500	6,752,300	179,747,700
Average length of hospital stay (days)	6	6	6	6	5	6
Number of ED visits	689	504	185	342	347	9,603
Crude rate of ED visits (per 100,000)	209	436	86	214	204	226
Median age of ED patients	57	57	57	57	62	52
Total cost of ED visits (\$)	937,000	645,500	291,500	483,500	453,500	13,447,300
Number of deaths**	94	50	42	40	54	1,183
Age-Adjusted Death rate (per 100,000)**	29	54	18	29	28	27

ALL CANCERS	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	1,288	396	892	583	705	16,389
Crude rate of hospitalizations (per 100,000)	390	342	416	364	414	385
Median age of hospitalized patients	62	62	67	62	62	62
Total cost of hospitalization (\$)	53,220,200	17,442,800	35,777,400	24,546,800	28,673,400	664,309,500
Average length of hospital stay (days)	8	9	7	8	8	8
Number of deaths**	583	211	370	322	261	8,617
Age-Adjusted Death rate (per 100,000)**	178	224	162	237	138	196

COLORECTAL CANCER	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	175	50	125	78	97	2,070
Crude rate of hospitalizations (per 100,000)	53	43	58	49	57	49
Median age of hospitalized patients	67	67	67	65	67	67
Total cost of hospitalization (\$)	6,685,100	1,635,900	5,049,200	2,733,800	3,951,300	101,377,700
Average length of hospital stay (days)	8	8	8	8	9	10
Number of deaths**	59	27	32	33	26	812
Age-Adjusted Death rate (per 100,000)**	18	30	14	24	14	19

BREAST CANCER	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	68	21	47	-	68	1,228
Crude rate of hospitalizations (per 100,000)	40	35	42	-	47	56
Median age of hospitalized patients	57	57	62	-	57	62
Total cost of hospitalization (\$)	1,736,800	426,700	1,310,100	-	1,736,800	26,163,000
Average length of hospital stay (days)	3	3	3	-	3	3
Number of deaths**	52	25	27	-	52	651
Age-Adjusted Death rate (per 100,000)**	28	43	21	-	28	26

CERVICAL CANCER	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	13	9	4	-	13	192
Crude rate of hospitalizations (per 100,000)	8	15	4	-	8	9
Median age of hospitalized patients	47	47	55	-	47	47
Total cost of hospitalization (\$)	292,000	176,500	115,500	-	292,000	4,668,500
Average length of hospital stay (days)	4	4	4	-	4	4
Number of deaths**	5	4	1	-	5	63
Age-Adjusted Death rate (per 100,000)**	3	7	1	-	3	3

LUNG CANCER	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	138	31	107	64	74	2,181
Crude rate of hospitalizations (per 100,000)	42	27	50	40	43	51
Median age of hospitalized patients	67	67	72	67	67	67
Total cost of hospitalization (\$)	6,327,200	1,463,800	4,863,400	2,954,600	3,372,600	92,775,300
Average length of hospital stay (days)	9	10	8	8	9	9
Number of deaths**	169	42	127	107	62	2,703
Age-Adjusted Death rate (per 100,000)**	51	45	55	78	33	61

PROSTATE CANCER	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	98	32	66	98	-	1,209
Crude rate of hospitalizations (per 100,000)	61	57	63	73	-	58
Median age of hospitalized patients	62	62	62	62	-	62
Total cost of hospitalization (\$)	2,227,400	773,600	1,453,800	2,227,400	-	30,356,600
Average length of hospital stay (days)	5	8	3	5	-	4
Number of deaths**	36	21	15	36	-	460
Age-Adjusted Death rate (per 100,000)**	30	70	17	30	-	30

*Prevalence estimates at regional level

**Mortality data were provided by Division of Biostatistics, Office of Public Health Statistics and Information Systems, DHEC using ICD-10 codes.

All hospitalizations of Blacks include Blacks and Others.

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